JVC

SCHEMATIC DIAGRAMS

COLOR TELEVISION

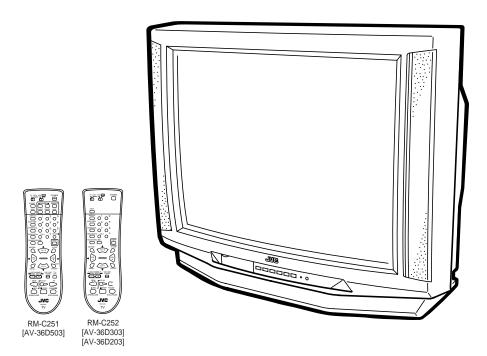
AV-36D503/m/R/Y AV-36D303/m/R/Y AV-36D203/m/R/Y

BASIC CHASSIS

GE

CD-ROM No.SML200205





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AV-36D503/m/R/Y,AV-36D303/m/R/Y,AV-36D203/m/R/Y

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the \(\triangle \) symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal : Colour bar signal

(2) Setting positions of each knob/button and

variable resistor : Original setting position

when shipped

(3)Internal resistance of tester :DC 20kΩ/V

(4)Oscilloscope sweeping time :H \Rightarrow 20 μ S/div

:V ⇒ 5mS/div

:Others \Rightarrow Sweeping time is

specified

(5) Voltage values :All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

In the PW board :R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM (1)Resistors

Resistance value

No unit :[Ω] K :[K Ω] M :[M Ω]

Rated allowable power

No indication :1/ 16 [W]
Others :As specified

Type

No indication :Carbon resistor
OMR :Oxide metal film resistor

MFR :Metal film resistor
MPR :Metal plate resistor
UNFR :Uninflammable resistor

FR :Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

Capacitance value

 $\begin{array}{ll} \mbox{1 or higher} & :[pF] \\ \mbox{less than 1} & :[\mu F] \end{array}$

Withstand voltage

No indication :DC50[V]

Others :DC withstand voltage [V]
AC indicated :AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]:Capacitance value [μ F]/withstand voltage[V]

Type

No indication :Ceramic capacitor

MM :Metalized mylar capacitor

PP :Polypropylene capacitor

MPP :Metalized polypropylene capacitor

MF :Metalized film capacitor
TF :Thin film capacitor

BP :Bipolar electrolytic capacitor

TAN :Tantalum capacitor

(3)Coils

No unit :[\(\mu \) H]

Others :As specified

(4)Power Supply

 :B1	:B2 (12V)
:9V	:5V

*Respective voltage values are indicated

(5)Test point



(6)Connecting method



(7)Ground symbol

」 :ISOLATED(NEUTRAL) side ground

≟ :EARTH ground

∴ :DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\bot) side GND and the ISOLATED(NEUTRAL) : (\Longrightarrow) side GND.Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time.
 If the above precaution is not respected, a fuse or any parts will be broken.
- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

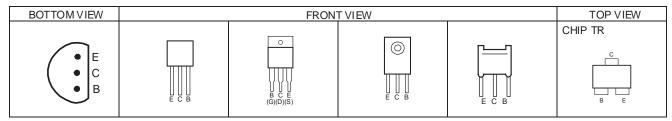
When ordering parts, please use the numbers that appear in the Parts List.

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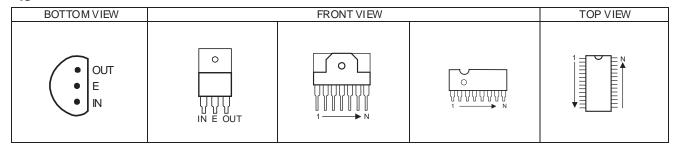
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SEMICONDUCTOR SHAPES

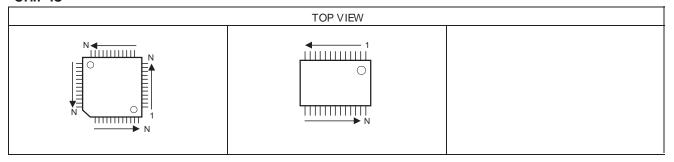
TRANSISTOR



IC

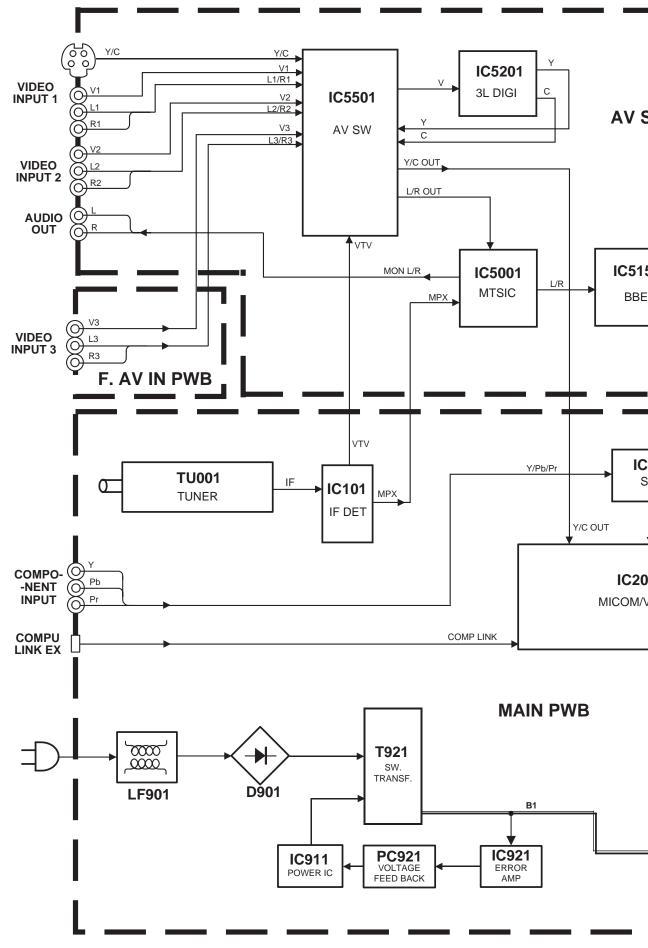


CHIP IC

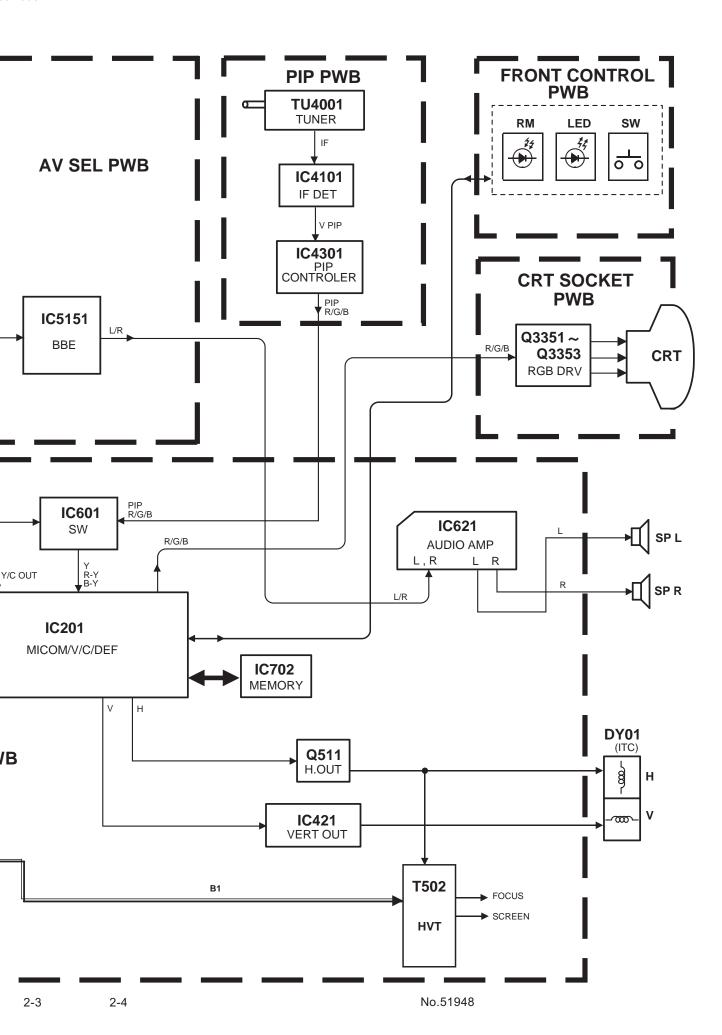


2-2 No.51948

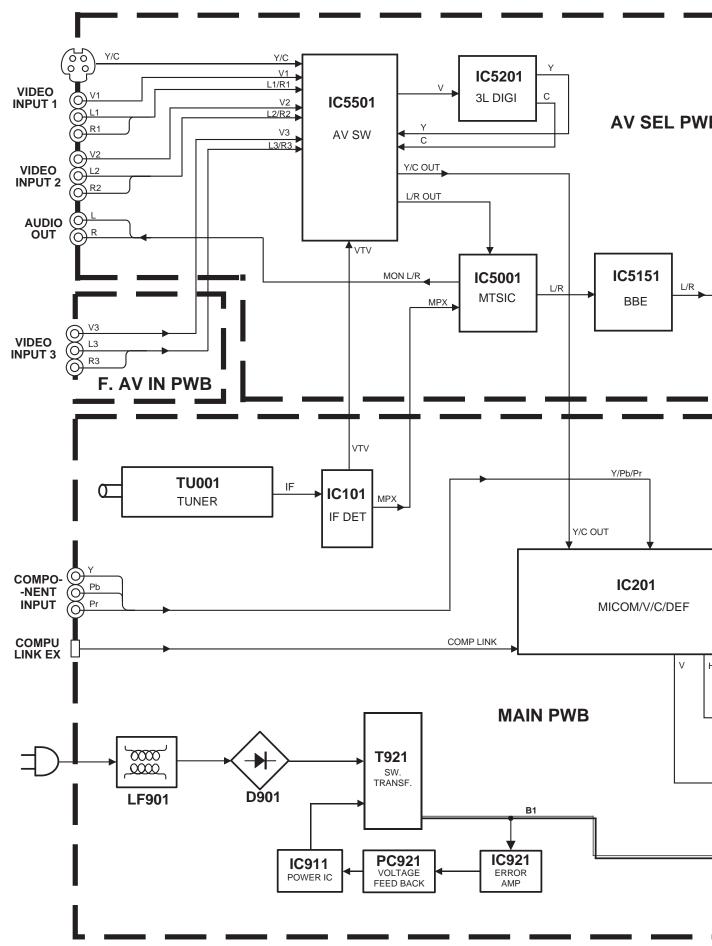
BLOCK DIAGRAM

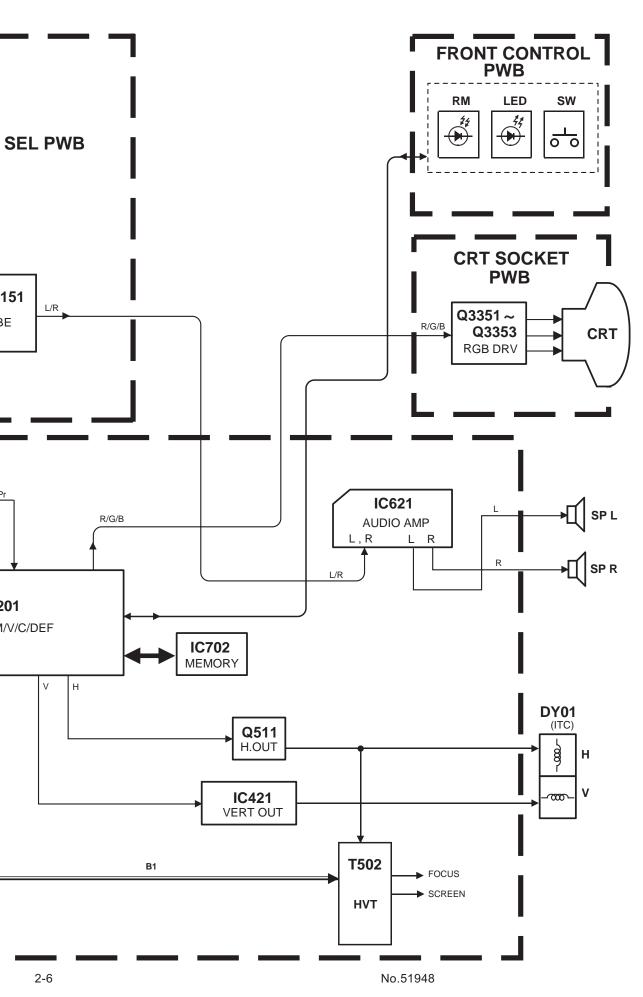


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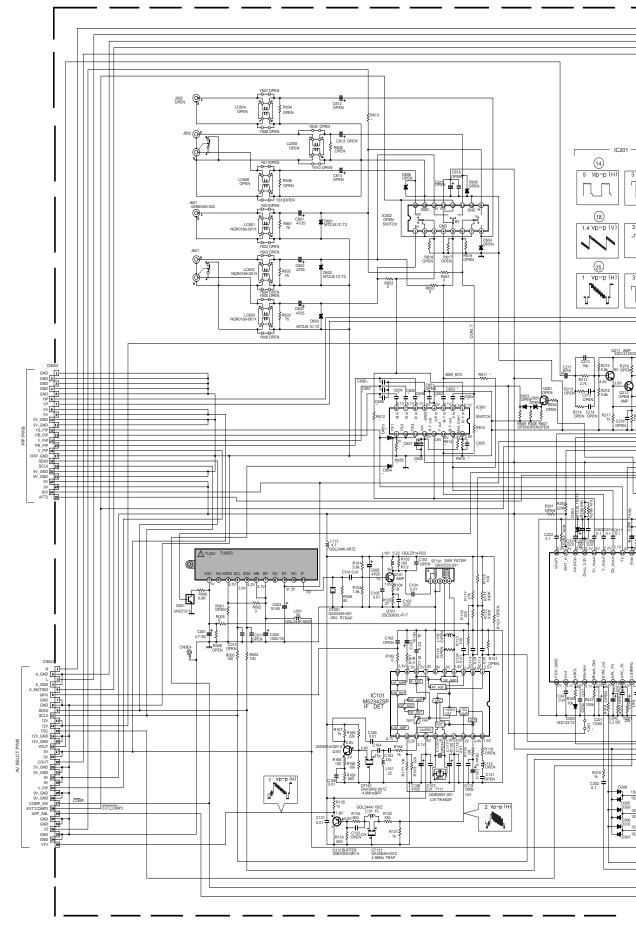


BLOCK DIAGRAM





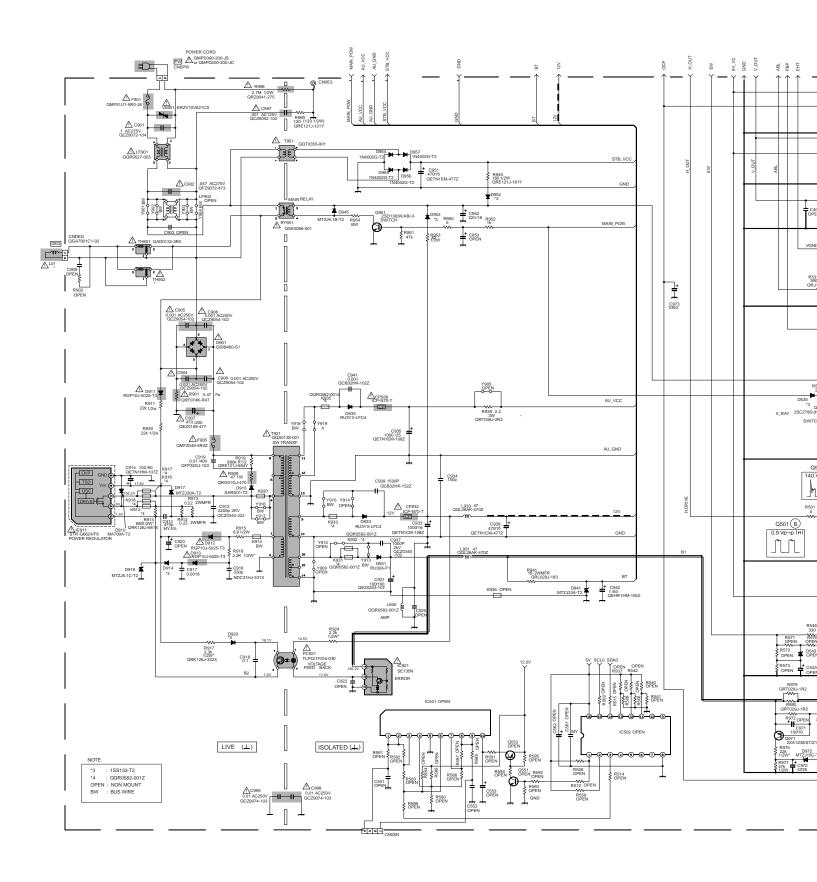
CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAMS [1/2]



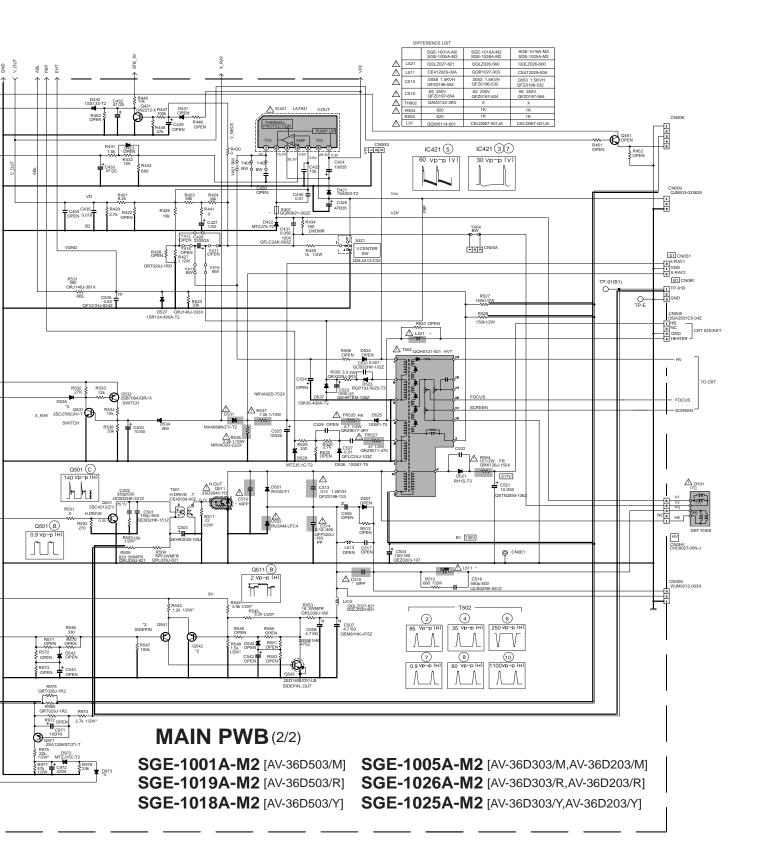


R740 3v 3v 3v 3

D352 +60 S

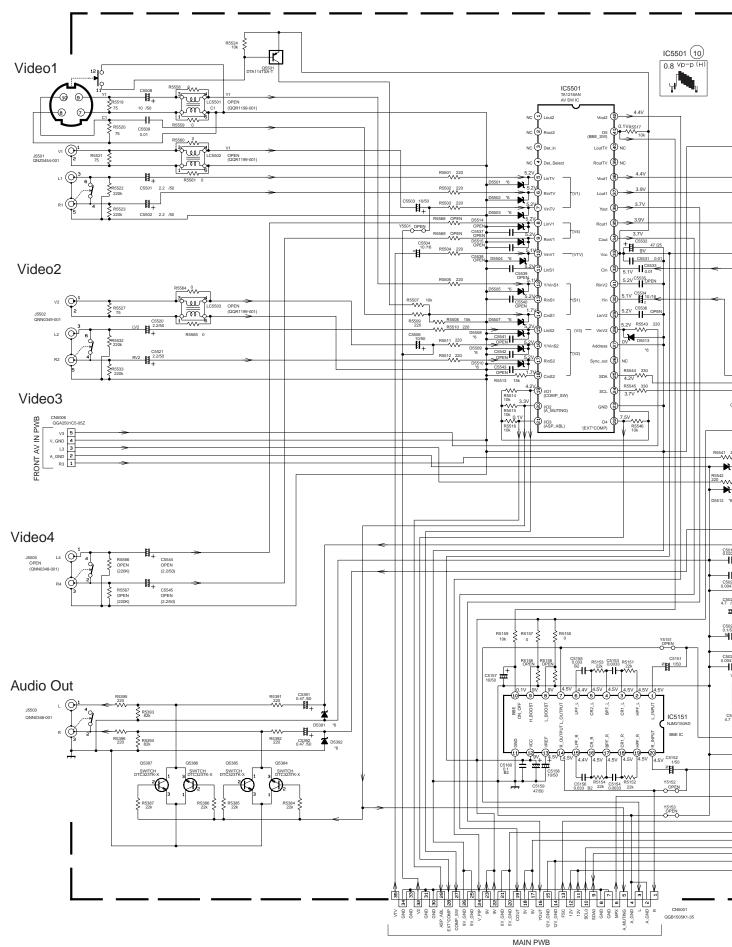


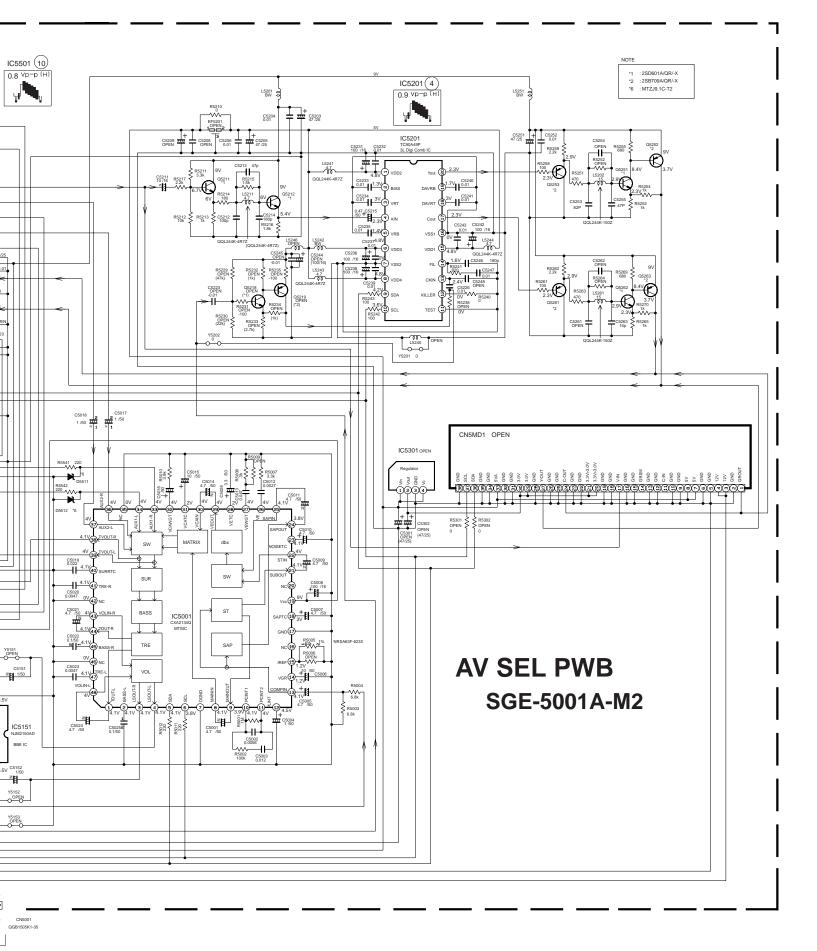
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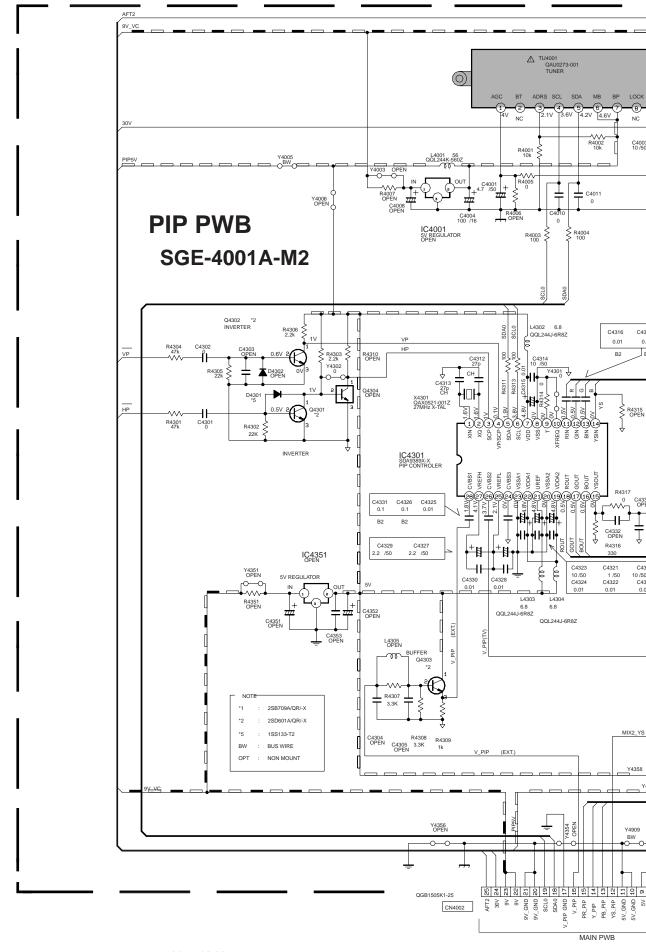
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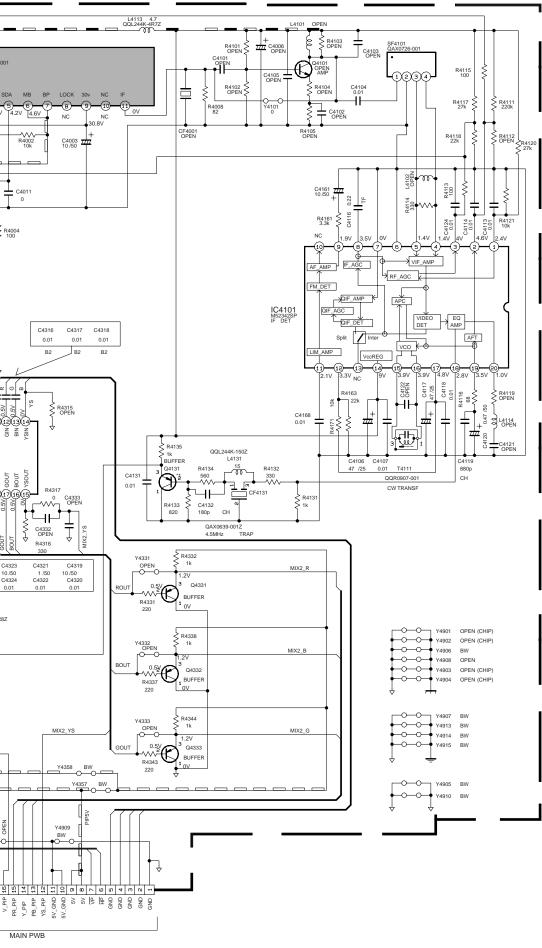
AV SEL PWB CIRCUIT DIAGRAM



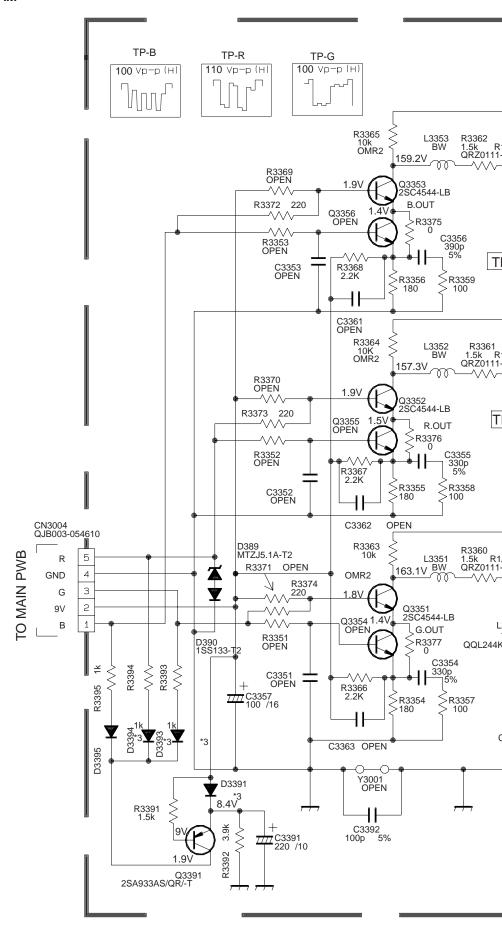


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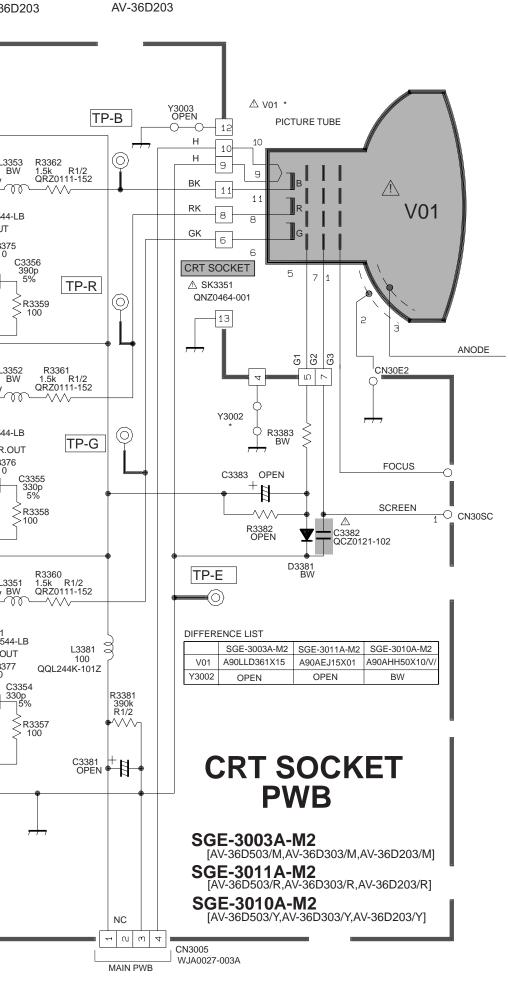




2-14 No.51948



No.51948 2-15

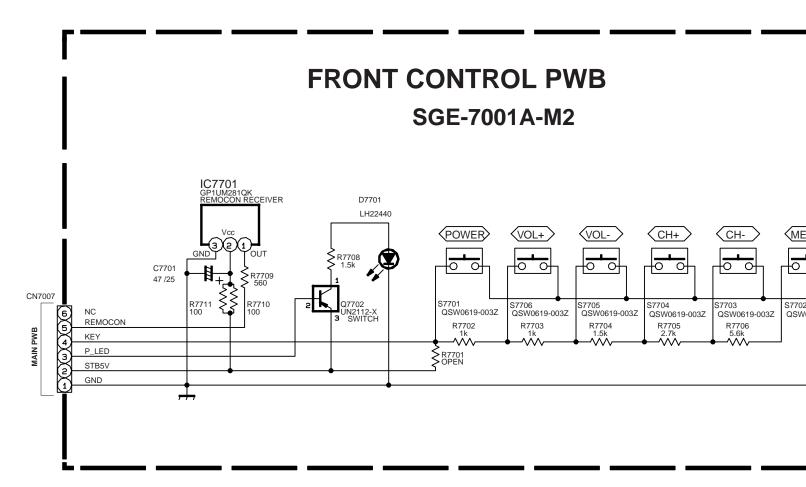


36D503

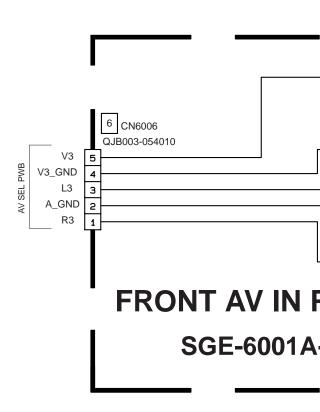
36D303

AV-36D503 AV-36D303

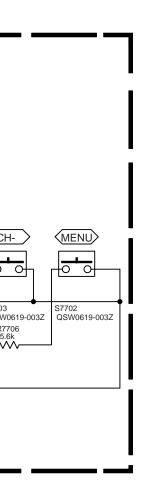
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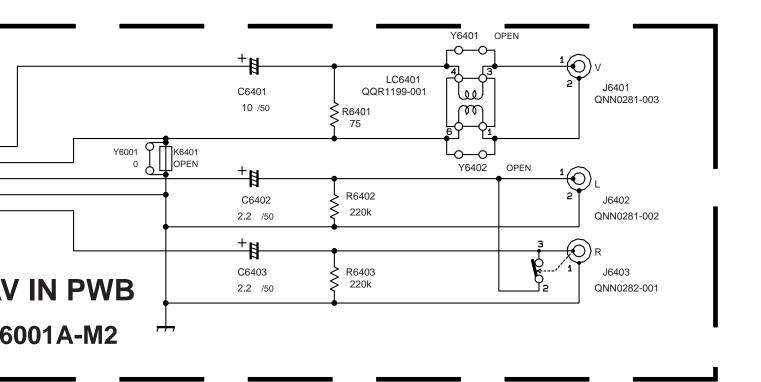
FRONT AV IN PWB CIRCUIT DIAGRAM



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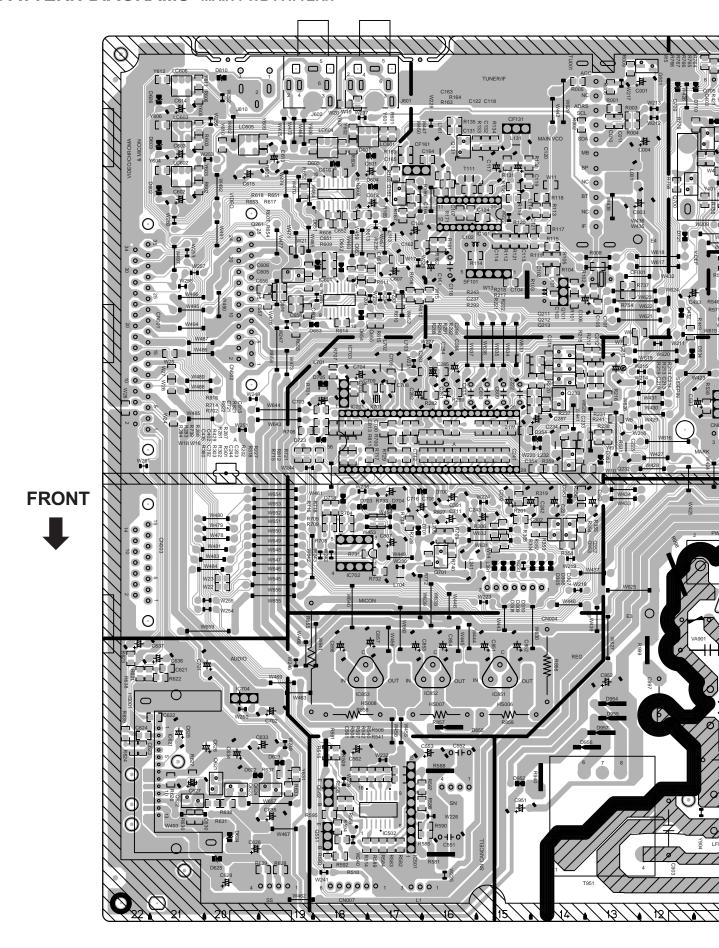


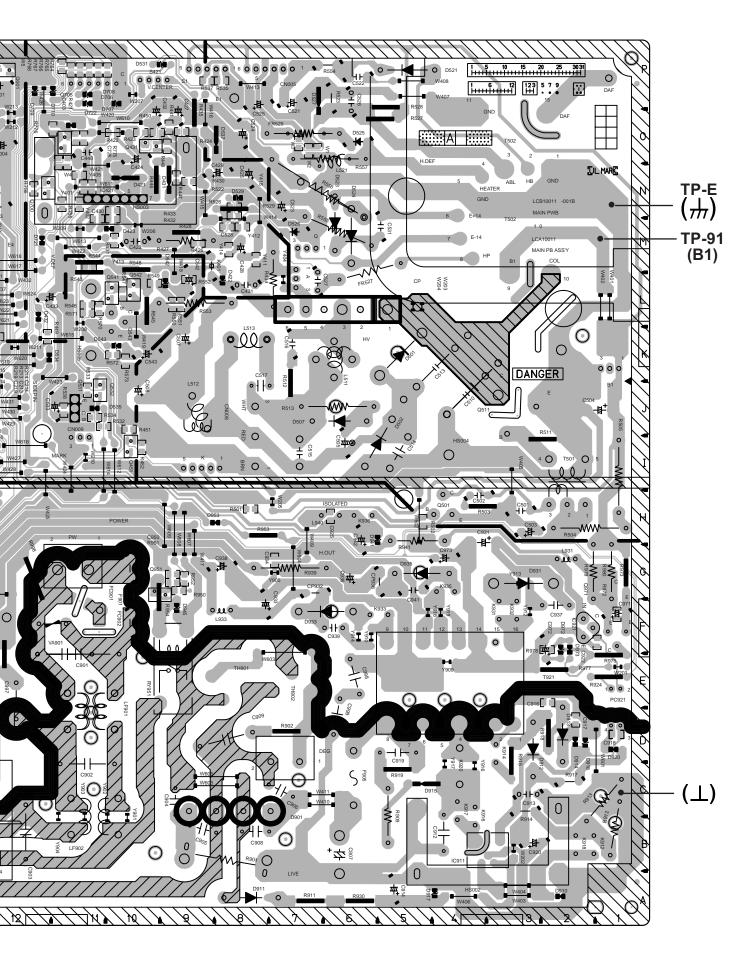
JIT DIAGRAM



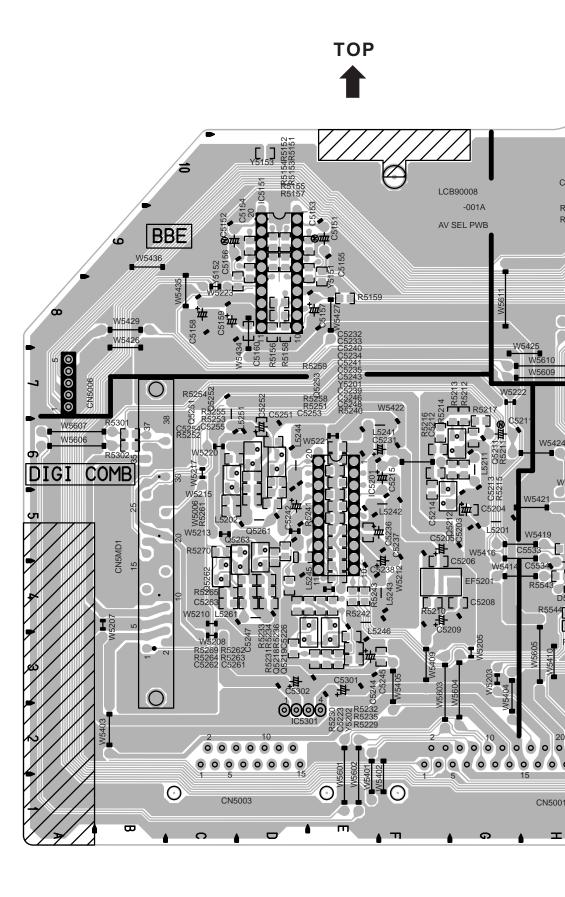
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PATTERN DIAGRAMS MAIN PWB PATTERN

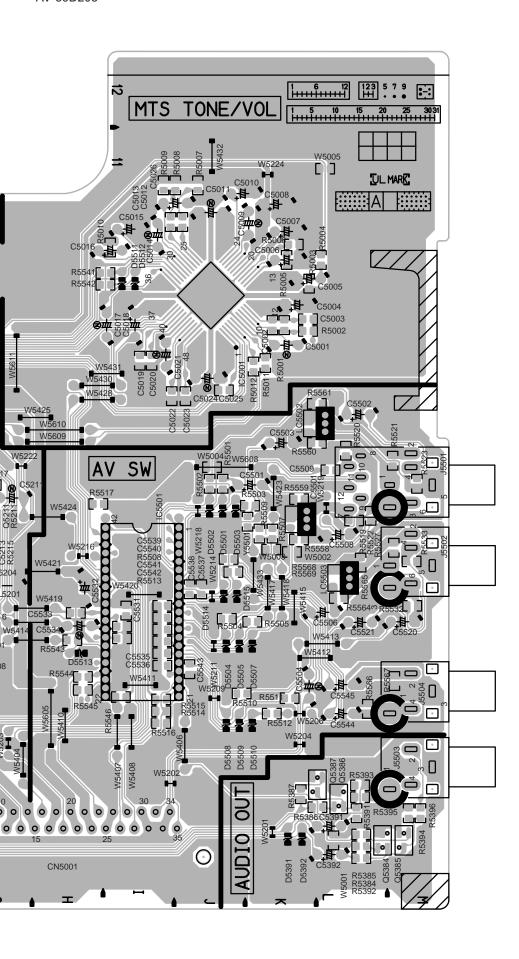




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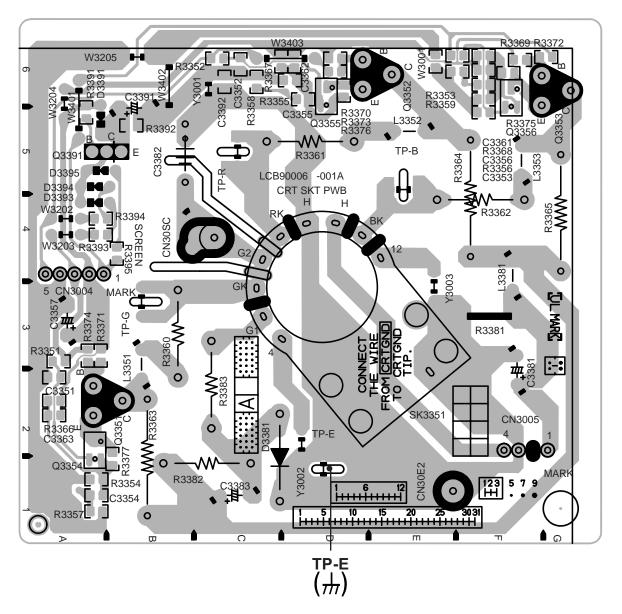


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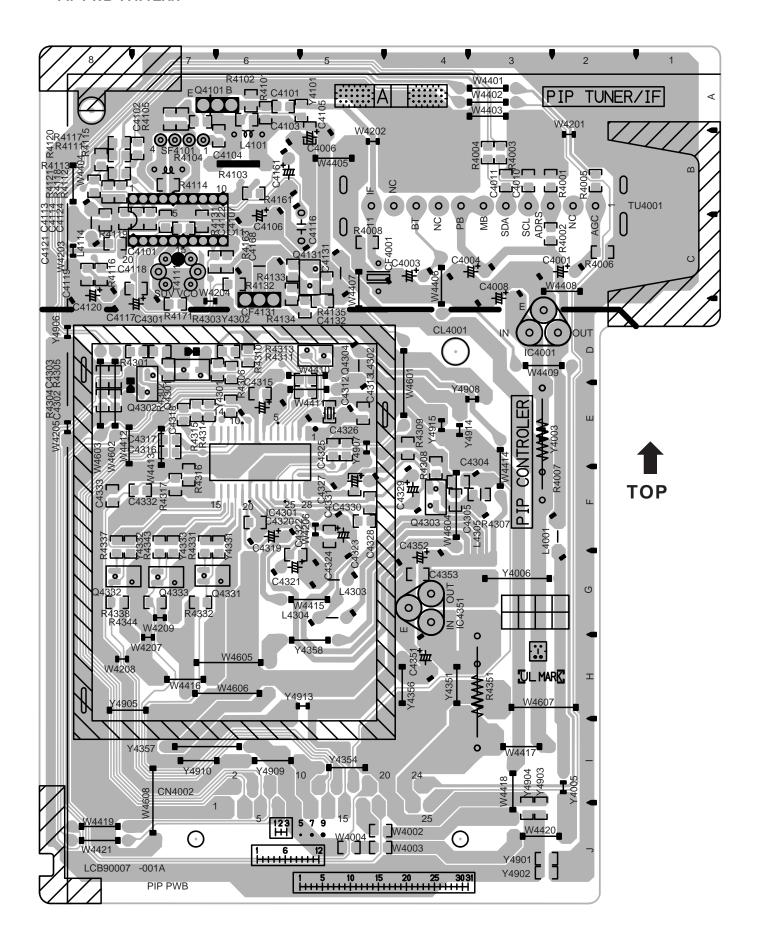
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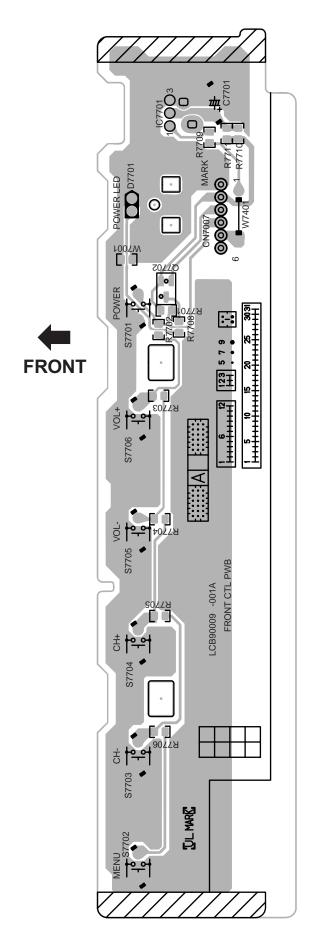
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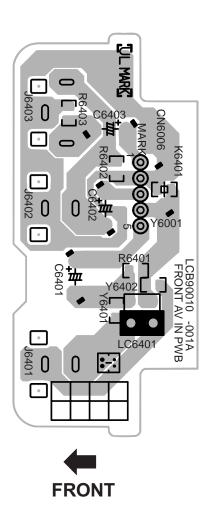
PIP PWB PATTERN



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FRONT AV IN PWB PATTERN





CHANNEL CHART (US)

CHANNEL CHART (US)					
MO		BAND		NNEL	TUNER
TV	CATV	22110	REAL	DISP.	BAND
		VL	0)2)3)4)5)6	I
0	0	VH	0 0 1 1 1	97 98 99 0 1 2 3	П
			A B	14 15	I
		MID	C D E F G H I	16 17 18 19 20 21	
		SUPER	7 K L M Z O P O R N F U > S	23 24 25 26 27 28 29 30 31 32 33 34 35 36	П
×	× O		W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11	37 38 39 40 41 42 43 44 45 46 47	
		HYPER	W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+22 W+23 W+24 W+25 W+26 W+27 W+28	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	IV
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70	

MODE		CHANNEL		NNEL	TUNER	
TV	CATV	BAND	REAL DISP.		BAND	
×	O	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+45 W+45 W+50 W+51 W+52 W+53 W+55 W+55 W+55 W+55 W+55 W+55 W+55	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV	
		SUB MID	A-8 A-4 A-3 A-2 A-1	01 96 97 98 99	I	
0	×	UHF	6	4 \$ 9	IV	
TOTAL 180CH { VHF 124CH { UHF 56CH						
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.						

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CHANNEL CHART (CA)

<u>CHAN</u>	INEL	CHART (CA)				
MC	DE	BAND	CHAI	NNEL	TUNER	
TV	CATV	PAND	REAL	DISP.	BAND	
		VL	0 0 0	2 3 4 5 6	I	
0	0	VH	0 0 1 1 1	7 8 9 0 1 2 3		
		MID	A B C D E F G H -	14 15 16 17 18 19 20 21 22	п	
			J K L M Z O	23 24 25 26 27 28		
		SUPER	PQRSTUVS	29 30 31 32 33 34 35 36		
×	0	HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11 W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	ш	
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70	IV	

MODE			CHANNEL		TUNER	
TV	CATV	BAND	REAL	DISP.	BAND	
×	0	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+45 W+45 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+67 W+68 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV	
		SUB	A-8 A-4	01 96	I	
		MID	A-3 A-2 A-1	97 98 99	П	
0	×	UHF		4 S 9	IV	
TOTAL 180CH { VHF 124CH { UHF 56CH						
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SPECIAL ADAPTERS MAY BE REQUIRED.

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